

IN THE CLAIMS:

1. (Currently Amended) A method of inputting and processing a variety of user information for a digital mobile station, which includes a touch screen panel and a control module for processing touch screen data generated from the touch screen panel, the method comprising the steps of:

(a) starting a counter having a predetermined, ~~periodic~~ time period in response to the digital mobile station entering a write input mode;

(b) continuously detecting the touch screen data generated from the touch screen panel was input during ~~an~~ the predetermined time period ~~interval~~ of about a 20 msecond ~~time period~~;

(c) displaying and storing the touch screen data generated within the predetermined time period as a continuous line during the write input mode;

(d) determining whether a next touch screen data is generated from the touch screen panel within a next predetermined time period; and,

(e) if the next touch screen data is detected within the next predetermined time period, displaying and storing the next touch screen data.

2. (Original) The method according to Claim 1, wherein the method further comprises the step of connecting the touch screen data with the next touch screen data as a continuous line.

3. (Original) The method according to Claim 1, wherein the predetermined time period is determined so that processing the touch screen data generated from the touch screen panel does not

interfere with another predetermined time period assigned to the control module.

4. (Original) The method according to Claim 3, wherein the predetermined time period is set at one time slot in the control module and the another time period is set at another time slot in the control module.

5. (Original) The method according to Claim 4, wherein the predetermined time period defines a time period that is required for sampling the touch screen data.

6. (Original) The method according to Claim 5, wherein the predetermined time period set by a manufacturer of the control module.

7. (Currently Amended) A method of inputting and processing a variety of user information for a digital mobile station, which includes a touch screen panel and a control module for processing touch screen data generated from the touch screen panel, the method comprising the steps of:

- (a) setting the mobile station in a write input mode;
- (b) determining whether about a 20msecond periodic period of time has lapsed;
- (c) continuously determining whether the touch screen data is generated after the expiration of the ~~predetermined~~ periodic time period during the write input mode;
- (d) determining whether the generated touch screen data within the periodic ~~predetermined~~

time period is one continuous line;

(e) if the generated touch data is one continuous line within the ~~periodic~~predetermined time period, displaying and storing the generated touch screen data in a display unit and a buffer of the mobile station, respectively; and,

(f) if the generated touch data is not one continuous line within the ~~periodic~~predetermined time period, displaying and storing the generated touch screen data as a new starting line in the display unit and the buffer of the mobile station, respectively.

8. (Currently Amended) The method according to Claim 7, wherein the method further comprising the step of detecting a next touch screen data generated within the periodic ~~predetermined~~-time period and repeating the steps (d), (e), and (f).

9. (Currently Amended) The method according to Claim 8, wherein the periodic ~~predetermined~~ time period is determined so that the processing the touch screen data generated from the touch screen panel does not interfere with another predetermined time period assigned to the control module.

10. (Currently Amended) The method according to Claim 9, wherein the periodic~~predetermined~~ time period is set at one time slot in the control module and the another time period is set at another time slot in the control module.

11. (Currently Amended) A method of processing user information inputted through a touch screen panel for a digital mobile station, comprising the steps of:

(a) continuously ~~repeatedly~~ detecting a series of touch screen data generated from the touch screen panel during an interval of about a 20msecond periodic time period while the digital mobile station is in a write input mode; and,

(b) displaying the generated touch screen data in a display unit of the mobile by connecting a series of the touch screen data generated at the periodic ~~predetermined~~ time period interval if the touch screen data generated at the periodic ~~predetermined~~ time period interval is a continuous line.

12. (Currently Amended) The method according to Claim 11, wherein the periodic ~~predetermined~~ time period is determined so that processing the touch screen data generated from the touch screen panel does not interfere with another predetermined time period assigned to the control module.

13. (Currently Amended) The method according to Claim 12, wherein the periodic ~~predetermined~~ time period is set at one time slot and the another time period is set at another time slot in a processor of the mobile phone.

14. (Currently Amended) The method according to Claim 13, wherein the periodic ~~predetermined~~ time period defines a time period that is required for sampling the touch screen data.

15. (Currently Amended) The method according to Claim 14, wherein the periodic
~~predetermined~~ time period set by a manufacturer of the control module.

16. (Currently Amended) A digital mobile station having a touch screen panel as an input means, comprising:

a timer for performing the counting of about a 20msecond time interval in response to a timer control signal corresponding to an entry of a write input mode;

a detector for continuously detecting a touch screen panel data generated during the
~~predetermined 20msecond~~ time interval during the write input mode;

a display unit for displaying the detected touch screen panel data as a continuous line;

a memory for storing the detected touch screen panel data; and

a control module for generating the timer control signal, determining whether another touch screen panel data is detected corresponding to a next predetermined time interval, generating a control signal for displaying the detected touch screen panel data on the display unit, and generating a control signal for storing the detected touch screen panel data in the memory.

17. (Currently Amended) A digital mobile station having a touch screen panel as an input means, comprising:

a timer for repeatedly counting about a 20msecond time interval in response to a write input mode;

a detector for continuously detecting a touch screen panel data generated during the ~~predetermined~~ _time interval during the write input mode;

a display unit for displaying the detected touch screen panel data as a continuous line;

a memory for storing the detected touch screen panel data; and

a control module for determining whether the detected touch screen panel data is generating after the expiration of the ~~predetermined~~ 20msecond _time interval, and if the detected touch screen panel data is one continuous line within the ~~predetermined~~ 20msecond time interval, respectively generating control signals for displaying the detected touch screen panel data on the display unit and storing the detected touch screen panel data in the memory, and if the detected touch screen panel data is not one continuous line within the ~~predetermined~~ 20msecond _time interval, respectively generating control signals for displaying the detected touch screen panel data as start of a new line on the display unit and storing the detected touch screen panel data.

18. (Currently Amended) A digital mobile station having a touch screen panel as an input means, comprising:

a timer for repeatedly counting about a 20msecond time interval in response to a write input mode;

a detector for continuously detecting a touch screen panel data generated during the ~~predetermined- 20msecond~~ time interval during the write input mode;

a display unit for displaying the detected touch screen panel data;

a memory for storing the detected touch screen panel data; and

a control module for generating a control signal for repeatedly detecting a series of a touch screen data generated from a touch screen panel during an interval of a predetermined time interval while the digital mobile station is in a write input mode, and generating a control signal for displaying the detected touch screen data on a display unit by connecting the series of the touch screen data if the series of the touch screen data detected during the predetermined time interval is one continuous line.